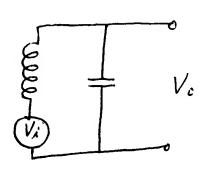
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	то :	The Files	DATE: 30 July 1956	
	FROM:			25X′
	SUBJECT:	(Visit to	Contract RD-107, T.O. 4)	25X′
		1. A meeting was held on 24 Ju Present a	ly at the meeting were:	25X1 25X1 25X1
		ix should be 25.26 kc. 3. stated that by t	ed that mid-frequency of antenna rying various windings on three the on hand, an antenna 0 of 120	25X ²
	different materials that happened to be on hand, an antenna Q of 120 had been achieved. He further stated that some investigation had been made of the mutual coupling between the various antennas of the matrix and it had been found that for a 2 inch spacing between antennas there was coupling coefficient of .05. has been working on the problem of adding the antenna outputs and has already achieved a transistor isolation stage design with a noise figure of 6 db. is planning on giving us a single output rather than 20 separate outputs. 4. The development plan of the complete matrix is that all component antennas will be developed together rather than one at a time; thus one specific antenna design will not be finished appreciably ahead of the others. 5. The following relations and definitions may be used in future correspondence:			25X ²
			t per unit field strength.	
		Effective permeability at to initial permeability.	low signal strength is equal	
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Vi - Induced Voltage
Vo - output Voltage

Antenna Equivilent ckt.

where Nervite is effective permishelity of The ferrite and a function of Torroidal Pirmiability and length/diam. ratio.

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